

Title (en)

Power system stabilizer for generator

Title (de)

Leistungssystemstabilisierung für einen Generator

Title (fr)

Stabilisateur de système d'alimentation pour générateur

Publication

EP 0713287 A1 19960522 (EN)

Application

EP 95117995 A 19951115

Priority

- JP 30424694 A 19941115
- JP 31610594 A 19941128

Abstract (en)

To improve the resistance against external low-frequency disturbance (represented by generator output change), the power system stabilizer for a generator, for inputting a voltage regulating signal (e), as an auxiliary signal, to an automatic voltage regulator (3) to control a generator terminal voltage at a target voltage (Vo), comprises: an angular acceleration observer (1) for calculating an estimated angular acceleration change rate (DELTA as) of the generator on the basis of at least one of stabilizing signal change rates (DELTA P and/or DELTA omega) of the generator; and a power stabilizer circuit (2) for calculating a corrected voltage regulating signal (e) applied to the automatic voltage regulator (3) on the basis of the estimated angular acceleration change rate value (DELTA as) calculated by the angular acceleration observer (1). Further, it is preferable to provide a plurality of observers and a plurality of power stabilizer circuits, separately for each fluctuation frequency. <IMAGE>

IPC 1-7

H02P 9/10

IPC 8 full level

H02P 9/10 (2006.01)

CPC (source: EP KR US)

H02P 9/10 (2013.01 - KR); **H02P 9/105** (2013.01 - EP US)

Citation (search report)

- [A] EP 0199695 A2 19861029 - HUAZHONG INST OF TECHNOLOGY [CN]
- [A] EP 0206578 A2 19861230 - MITSUBISHI ELECTRIC CORP [JP]
- [A] EP 0456521 A1 19911113 - TOSHIBA KK [JP]
- [A] PATENT ABSTRACTS OF JAPAN vol. 13, no. 46 (E - 711) 2 February 1989 (1989-02-02)
- [A] PATENT ABSTRACTS OF JAPAN vol. 13, no. 381 (E - 810) 23 August 1989 (1989-08-23)

Cited by

CN101960688A; WO2009109700A3

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

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DOCDB simple family (application)

EP 95117995 A 19951115; CN 95118862 A 19951114; DE 69504457 T 19951115; KR 19950041439 A 19951115; US 55948695 A 19951115